



6T8

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TRIPLE DIODE-HIGH-MU TRIODE

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage. 6.3 ac or dc volts

Current. 0.45 amp

Direct Interelectrode Capacitances:⁰

Triode unit:

Grid to plate. 1.8 $\mu\mu\text{f}$

Grid to cathode & internal shield

(pin 7), and heater. 1.6 $\mu\mu\text{f}$

Plate to cathode & internal shield

(pin 7), and heater. 1.1 $\mu\mu\text{f}$

Diode-No.1 plate to cathode & internal

shield (pin 7), and heater. 3.8 $\mu\mu\text{f}$

Diode-No.2 plate to cathode & internal

shield (pin 3), and heater. 4.5 $\mu\mu\text{f}$

Diode-No.3 plate to cathode & internal

shield (pin 7), and heater. 3.8 $\mu\mu\text{f}$

Diode-No.2 cathode & internal shield

(pin 3) to all other electrodes. 8.5 $\mu\mu\text{f}$ Triode grid to any diode plate 0.035 max. $\mu\mu\text{f}$ Characteristics, Class A₁ Amplifier (Triode Unit):

Plate Voltage. 100 250 volts

Grid Voltage -1 -3 volts

Amplification Factor 70 70

Plate Resistance (Approx.) 54000 58000 ohms

Transconductance 1300 1200 μmhos

Plate Current. 0.8 1 ma

Mechanical:

Mounting Position. Any

Maximum Overall Length 2-3/16"

Maximum Seated Length. 1-15/16"

Length, Base Seat to Bulb Top (Excluding tip). 1-9/16" $\pm$ 3/32"

Maximum Diameter 7/8"

Dimensional Outline. See General Section

Bulb T-6-1/2

Base Small-Button Noval 9-Pin (JETEC No.E9-1)

Basing Designation for BOTTOM VIEW 9E

Pin 1 - Diode-No.3

Plate

Pin 2 - Diode-No.2

Plate

Pin 3 - Diode-No.2

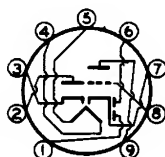
Cathode,

Internal

Shield

Pin 4 - Heater

Pin 5 - Heater



Pin 6 - Diode-No.1

Plate

Pin 7 - Cathode of

Triode &

Diodes No.1

& No.3,

Internal

Shield

Pin 8 - Triode Grid

Pin 9 - Triode Plate

⁰ Without external shield.

← Indicates a change.

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TRIODE UNIT — AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

→ PLATE VOLTAGE.	300 max.	volts
→ GRID VOLTAGE:		
Positive bias value.	0 max.	volts
PLATE DISSIPATION.	1 max.	watt
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	90 max.	volts
Heater positive with respect to cathode.	90 max.	volts

Typical Operation as Resistance-Coupled Amplifier:

See *RESISTANCE-COUPLED AMPLIFIER CHART No. 7*
at front of this Section

DIODE UNITS - Three

Maximum Ratings, Design-Center Values:

→ PLATE CURRENT (For each diode)	5 max.	ma
→ PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	90 max.	volts
Heater positive with respect to cathode.	90 max.	volts

Diode Considerations:

Diode No.1, diode No.3, and the triode have a common cathode, and diode No.2 has a separate cathode. Diode No.2 (pins 2 & 3) and diode No.3 (pins 1 & 7) are recommended for use in FM detector applications, while diode No.1 (pins 6 & 7) is recommended for use as an AM detector.

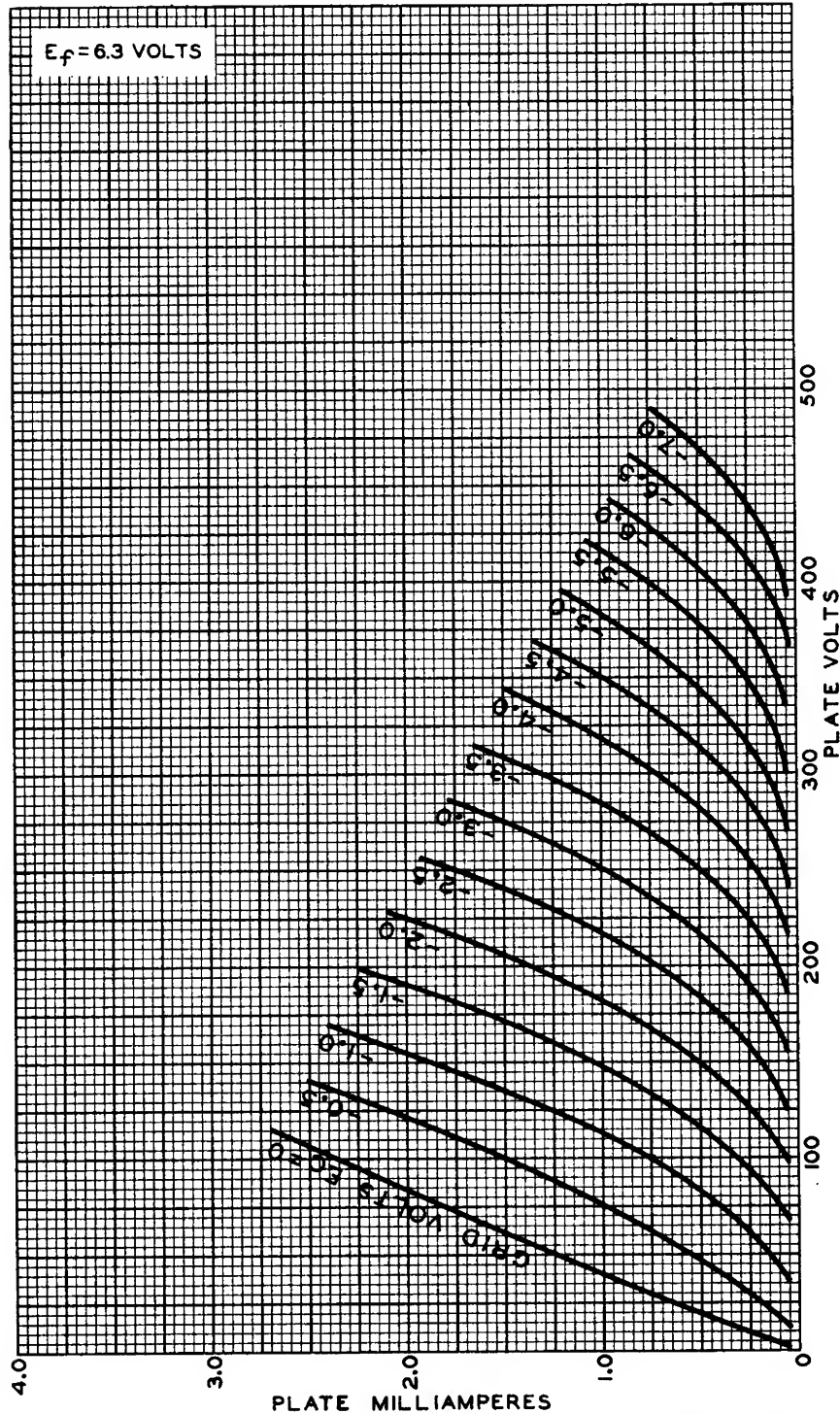
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AVERAGE PLATE CHARACTERISTICS TRIODE UNIT

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TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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